aparian

Time Sync

EtherNet/IP Time Synchronisation Module

Precision Time Protocol (1588 PTP)

Network Time Protocol (NTP)

< 200 ns Time Accuarcy

On-board GPS

CompactLogix Support

PLC5 / SLC Support

Modbus-TCP Support

Positioning Applications

Antenna Included

DIN Rail Mount

Easy to configure

The Time Sync module is a standalone time synchronization solution providing both 1588 PTP (Precision Time Protocol) and NTP (Network Time Protocol) services.

The onboard GPS receiver allows the module to discipline PTP clients to universal time (UTC) to within 200 ns.

The module can operate in a standalone or Logix "owned" mode. The latter provides additional diagnostic and time information to a Logix controller, and can be used to synchronize previous generation CompactLogix controllers that do not support PTP.

GPS position and velocity information is also available in the Logix input assembly allowing the module to be used in industrial positioning and collision avoidance systems.

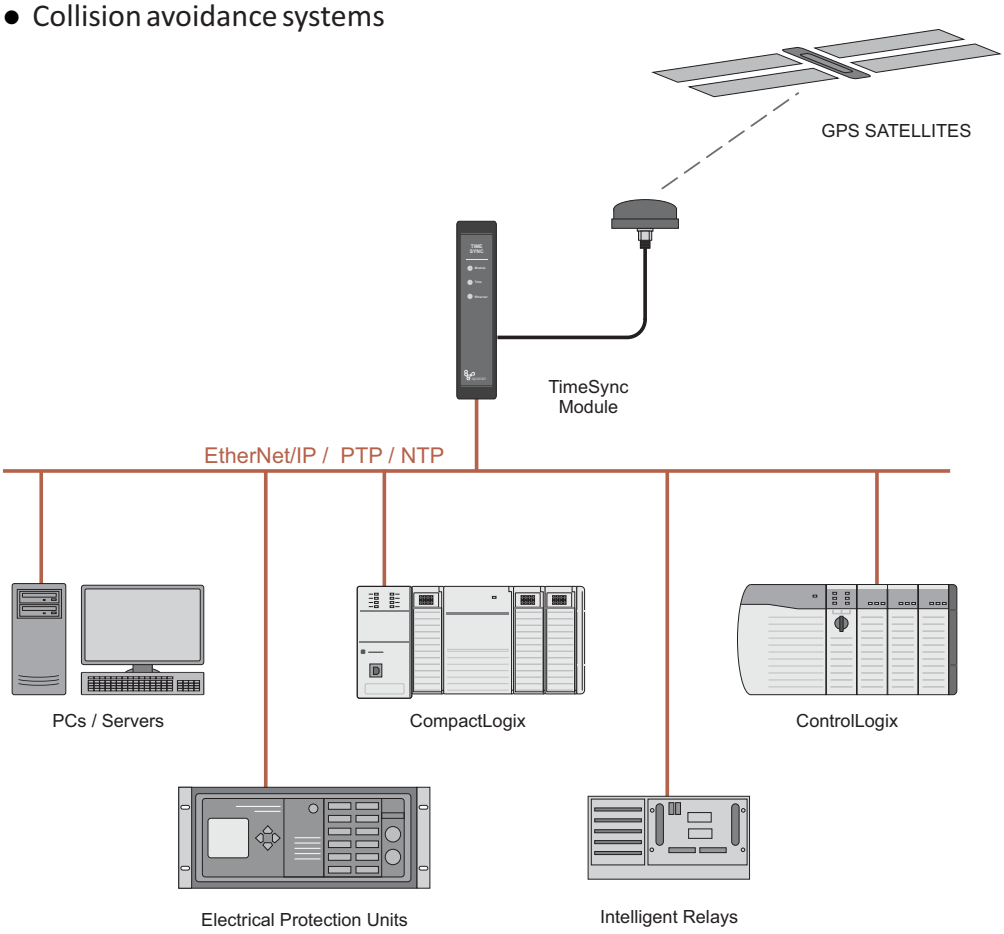




A built-in webserver provides detailed diagnostics of system configuration and operation, including the display of GPS time, position, and velocity, without the need for any additional software.

Applications

- Time Synchronization - Electrical and Control Systems (PTP)
- Time Synchronization - Server and IT infrastructure (NTP)
- Sequence of Event applications
- Vehicle tracking
- Collision avoidance systems



Specifications

EtherNet/IP

c UL us LISTED
CL 1 DIV 2 GRP A,B,C,D
E494895

CE

Parameter	Rating
Power requirements	10 - 28 VDC (70mA @ 24VDC)
Operating temperature	-20 - 70 °C
Ethernet	10/100 Mbps, Full/Half Duplex, Auto-MIDX
Satellite constellations	GPS / QZSS, SBAS, GLONASS, BeiDou
Horizontal position accuracy	2.0m (SBAS), 2.5m (autonomous) - (50% CEP)
Velocity accuracy	0.05 m/s (50%)
Time accuracy (PTP)	<200 ns
GPS antenna	Active 27dB gain, GPS only,
Antenna cable	RG174 SMA-Male, Length : 3m
Antenna temperature	-35 – +85 °C

Time Sync
A-TSM

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